

WHAT IS CLAIMED IS:

1. A gun action assembly comprising:  
a receiver;  
5 a bolt-carrier having a cam slot, the bolt-carrier reciprocable in the receiver between battery and recoil positions;  
a spring for biasing the bolt-carrier toward the battery position;  
a bolt having a cam pin, the cam pin located in the cam slot of the bolt-carrier;  
and  
10 an action rod fixedly attached to said receiver;  
wherein the cam pin engages the action rod during a portion of the bolt-carrier travel, the action rod preventing rotation of the bolt when the cam pin is engaged with the action rod.
- 15 2. The assembly of claim 1, wherein the bolt-carrier includes a longitudinal aperture for receiving the action rod.
3. The assembly of claim 1, wherein the longitudinal axis of the action rod is parallel to the longitudinal axis of the bolt-carrier.
- 20 4. The assembly of claim 1, wherein the cam pin includes an aperture.
5. The assembly of claim 4, wherein the cam pin aperture is laterally offset from the central longitudinal axis of the bolt.
- 25 6. The assembly of claim 4, wherein when the cam pin is engaged with the action rod, the action rod passes through the cam pin aperture.
7. The assembly of claim 6, wherein the bolt is rotatable between a battery  
30 position and a recoil position; the cam pin aperture being aligned with the action rod when the bolt is in the recoil position.
8. The assembly of claim 1, wherein the receiver further comprises an ejection port and the bolt-carrier further comprises a charging handle which passes through the

ejection port, wherein the charging handle engages the ejection port to prevent rotation of the bolt-carrier.

9. The assembly of claim 1, wherein the cam pin does not protrude beyond an  
5 outer surface of the bolt-carrier.

10. The assembly of claim 1, wherein the receiver is made from a tubular member.

11. The assembly of claim 1, wherein the action rod comprises an elongate  
10 member fixedly attached at one end to a recoil plate, the recoil plate being fixed to the receiver.

12. A gun action assembly comprising:  
a receiver having an ejection port;  
15 a bolt-carrier having a charging handle, the bolt-carrier reciprocable in the receiver between battery and recoil positions, the charging handle extending through the ejection port;  
a spring for biasing the bolt-carrier toward the battery position; and  
a bolt;  
20 wherein the charging handle prevents rotation of the bolt-carrier within the receiver.

13. The assembly of claim 12, wherein the charging handle is slidably engaged  
25 with the receiver within the ejection port.

14. The assembly of claim 12, wherein a portion of the charging handle contacts a  
portion of a wall surface of the receiver.

15. A gun action assembly comprising:  
30 a receiver;  
a bolt-carrier reciprocable in the receiver between battery and recoil positions;  
a spring for biasing the bolt-carrier toward the battery position;  
a bolt; and  
a gas elbow fixedly attached to the receiver, the gas elbow having a gas way;

wherein gas pressure may be directed by the gas elbow to initiate recoil of the bolt-carrier.

16. The assembly of claim 15, wherein the gas elbow further comprises a gas tube.

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17. The assembly of claim 16, wherein the bolt-carrier further comprises a gas port which receives the gas tube when the bolt-carrier is in the battery position.

18. The assembly of claim 15, further comprising an adjustable gas valve.

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19. The assembly of claim 15, wherein the bolt-carrier includes a gas vent.

20. The assembly of claim 15, wherein the receiver further includes a variable decline angle accessory mount.